

P/N 901163-00 Rev. NC 11/2021 POWER VENT KIT MODEL PVK-PF2-SV4.5

INSTALLATION INSTRUCTIONS FOR POWER VENT KIT MODEL PVK-PF2-SV4.5 (CAT. NO. F4776) FOR USE WITH ELECTRONIC IGNITION, DIRECT-VENT GAS FIREPLACES LISTED IN TABLE 2





We recommend that our gas hearth products be installed and serviced by professionals who are certified in the U.S. by the National Fireplace Institute® (NFI) as NFI Gas Specialists.

NOTICE

- READ ALL STEPS BEFORE STARTING INSTALLATION.
- LEAVE THESE INSTRUCTIONS WITH THE APPLIANCE.
- All warnings, precautions, and instructions in the *Installation and Operation Instructions* provided with the appliance also apply to these instructions.
- If you encounter any problems, need clarification of these instructions, or are not qualified to properly install this kit, contact your local distributor or dealer.

GENERAL INFORMATION

Power Vent Kit Model PVK-PF2-SV4.5 (illustrated in **Figure 1**) is only for use with certain INNOVATIVE HEARTH PRODUCTS, electronic, directvent, gas fireplaces. Compatible fireplaces and adaptor requirements are listed in **Table 2** on **Page 2**. See **Page 18** for venting components.

A CAUTION

This kit is NOT for use on millivolt appliances.

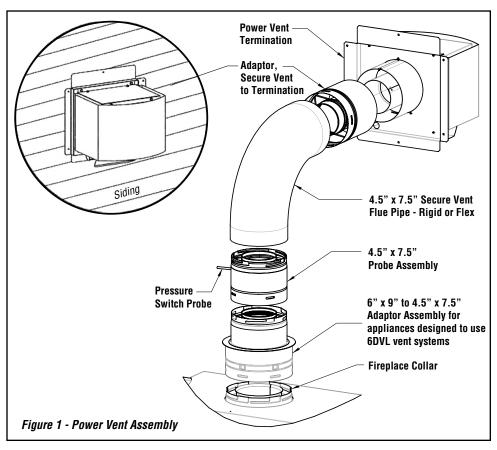
Some compatible fireplace models (specified in **Table 2**) may require the use of a specific **Power Vent Adaptor Kit** (sold separately). See **Table 2**, **Page 2**.

Installation must conform with local codes or, in the absence of local codes, with the National Fuel Gas Code, ANSI Z223.1/NFPA 54, latest edition (in Canada, the current CAN/CGA-B149.1 installation code).

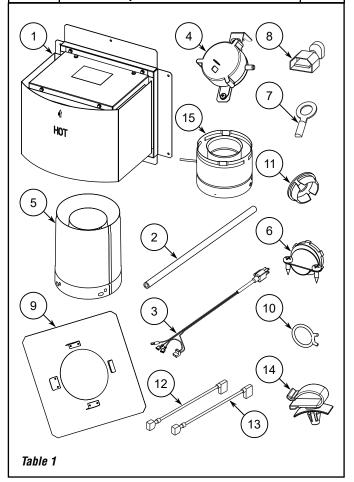
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REQUIRED PARTS (not provided)

- 14-Gage AWG Grounded Romex Cable
- · Wiring Junction Box



	KIT CONTENTS				
	Power Vent Kit PVK-PF2-SV4.5 (Cat. No. F4776)				
Item No.	Description				
1	Termination Power Vent	1			
2	Vacuum Hose (13 ft.)	1			
3	Wiring Harness	1			
4	Pressure Switch Assembly (includes adaptor wires)	1			
5	Termination Adaptor	1			
6	Strain Relief - 3/8"	1			
7	Ring Terminal - #10	1			
8	Insulated 1/4" Male Terminal	5			
9	Firestop Assembly (Horizontal)	1			
10	11/32" Hose Clamp	2			
11	Plastic Bushing	1			
12	Wire Adaptor, Female/Male	1			
13	Wire Adaptor, Female/Female	1			
14	Plastic Clip	2			
15	Probe Assembly	1			



COMPATIBLE FIREPLACES & ADAPTOR KIT REQUIREMENTS

Power Vent Kit PVK-PF2-SV4.5 (Cat. No. F4776)

Fireplace Series	Fireplace Models	Required Power Vent Adaptor Kit Cat. No. (Model No.)
		F4380 (6DVL4.5PVA) Adaptor Kit Contents:
Superior	DRL6060TEN-B DRL6072TEN DRL6084TEN	
		6" x 9" to 4-1/2" x 7-1/2" Adaptor
Table 2	-	

Approved Vent Components

This Power Vent Kit is designed, tested, and listed for operation and installation with the following vent components:

- Secure Vent Direct-Vent System Components
- Secure Flex Flexible Vent Components

TYPICAL INSTALLATION SEQUENCE

NOTE: This power vent system can only be terminated horizontally.

- [Page 3]: Install the fireplace according to the fireplace Installation Instructions.
- 2. [Page 3]: Plan the vent run.
- 3. [Page 4]: Install the appropriate power vent adaptor kit (Sold Separately)

NOTE: Attach adaptor and probe assemblies FIRST, before connecting any other vent components to the fireplace.

- 4. [Page 4]: Complete the vent run.
- 5. [Page 7]: Install cover wire plate with strain relief, tube bushing, and route vacuum hose.
- 6. [Page 8]: Route Romex wiring and connect to termination.
- 7. [Page 10]: Install the power vent termination.
- 8. [Page 12]: Convert control board from Natural Draft to Power Vent.
- 9. [Page 14]: Wiring and pressure switch installation.
- 10. [Page 15]: Set proper restrictor plate position.

DETAILED INSTALLATION INSTRUCTIONS

1. Install the fireplace.

Install the fireplace according to the fireplace *Installation Instructions*. Compatible fireplaces are listed in *Table 2* on *Page 2*.

A CAUTION

Do NOT install this Power Vent system on an incompatible fireplace.

A CAUTION

All power vented fireplaces must be set to Intermittent Pilot (IPI) mode and are not compatible with factory installed battery backup system.

NOTE: Igniter will continuously spark and possibly light the burner if unit is left in Continuous Pilot Mode (CPI). To switch to Intermittent Pilot Mode (IPI), carefully follow **Step 8** on **Page 12**.

2. Plan the vent run.

Various venting configurations are possible with this Power Vent Kit. Analyze the vent routing, and determine the required flex and/or rigid venting components available in *Tables 3A and 3B*.

NOTE: The power vent <u>chimney</u> may be run vertically through a roof (see **Figure 2a**) or horizontally through an outside wall; however, **THE POWER VENT TERMINATION MUST BE INSTALLED HORIZONTALLY**. Building codes limit or prohibit horizontal termination in specific areas. For location guidelines, refer to local codes. Also see **Figure 5** on **Page 6**.

Refer to *Figures 2* and *3* for maximum/minimum vertical and horizontal vent lengths.

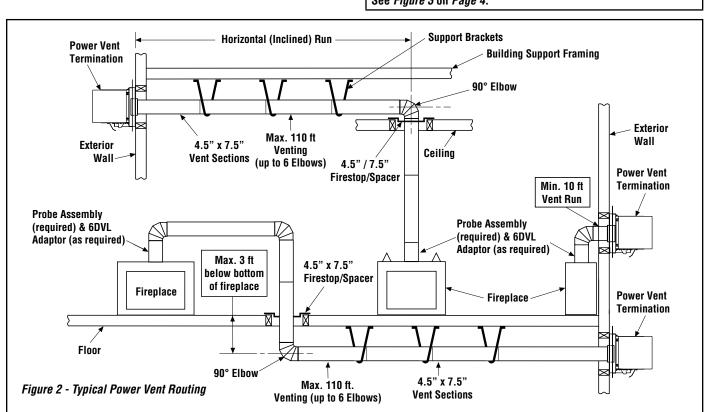
- Maximum vent run is 110 feet, plus six 90° (or twelve 45° turns, or equivalent combinations.
- Minimum vent length is 10 feet.
- Venting can be installed with any combination of rise and run between the appliance and the termination, including up to 3 feet below the unit (see Figure 2).

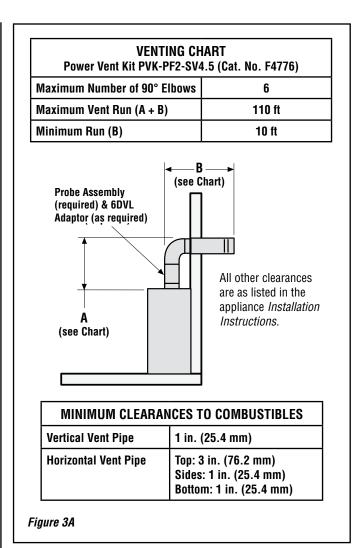
Chimney Chase Figure 2a - Chimney Chase Power Vent Termination

NOTE:

- Plan vent lengths to prevent joints at intersections of ceiling or roof joists.
- Ensure vent pipe is properly supported (for details, see the fireplace *Installation Instructions*).
- Make allowances for elbows, as indicated in the fireplace Installation instructions. Elbows are available in 90° and 45° configurations.
- To select vent length combinations and view a list of straight vent effective lengths, see the fireplace *Installation Instructions*.
- For approved venting components and Cat. No.s, see "Listed Vent Components" in this manual, as well as the fireplace Installation Instructions.
- For additional details on venting installation, see the fireplace Installation Instructions.

Remember to maintain minimum clearances to combustibles! See *Figure 3* on *Page 4*.





3. Attach the 6DVL Adaptor (if required) and probe assemblies to the fireplace collar.

NOTE:

 Attach the assemblies before connecting any other vent components to the fireplace.

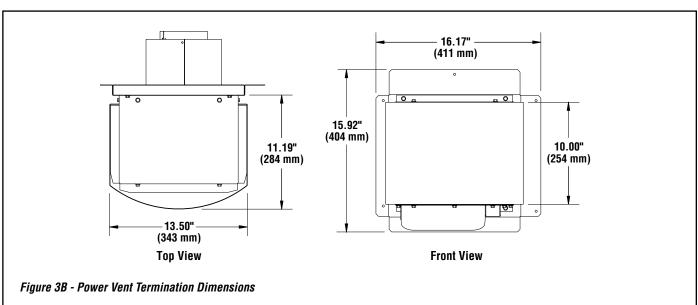
Apply a high temperature sealant to the inner and outer connections and attach the **Adaptor Assembly** directly to the fireplace collar in the manner shown in *Figure 4*. Then install the **Probe Assembly** [#15] directly on top of the **Adaptor** with the probe facing the left side of the fireplace.

All fireplace models compatible with this Power Vent Kit are fitted with collars that have locking channels. Compatible fireplaces are listed in *Table 2* on *Page 2*.

4. Complete the vent run.

After attaching the **Adaptor** and **Probe Assemblies**, add additional vent system components in accordance with the requirements and vent charts in the specific fireplace *Installation Instructions*.

Attach vent system components in the manner shown in *Figure 4*, "Connecting Adaptor, Probe, and Vent Components."



Connecting Adaptor, Probe, and Vent Components

Direct-vent venting system components are unitized concentric pipe components featuring positive twist-lock connections.

To Connect Vent Components:

- 1. Apply a high temperature sealant to all inner and outer connections within the entire venting run to ensure a proper seal.
- 2. Attach the female dimpled end of one section to the incline-channel end of the other section, making sure to align the dimples with the channels.
- 3. Push the section being attached against the adjoining section until fully engaged.
- 4. Twist the section being attached CLOCKWISE, running the dimples down and along the channels until seated at the ends of the channels.

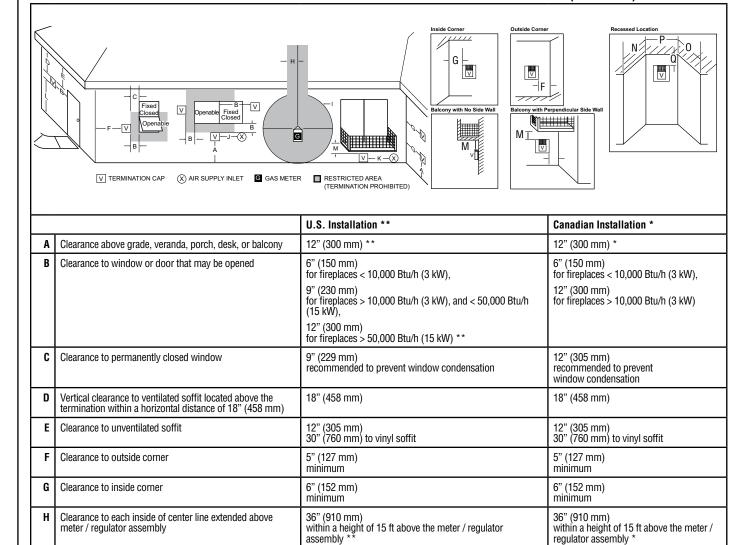
If desired, however, a $\#6 \times 1/2$ " screw may be used at each joint (not required).

Locking Channels



Figure 4

EXTERIOR HORIZONTAL VENT TERMINATION CLEARANCE REQUIREMENTS (ANSI/CSA)



regulator assembly 1

for fireplaces < 10,000 Btu/h (3 kW),

for fireplaces > 10,000 Btu/h (3 kW)

36" (910 mm)*

6" (150 mm)

12" (300 mm)

72" (1830 mm) *

84" (2130 mm) ‡

12" (300 mm) *‡

72" (1830 mm) 3

6" (15.2 mm)*

36" (910 mm) 3

18" (457 mm) *

Clearance to service regulator vent outlet

Clearance to a mechanical air supply inlet

Clearance under veranda, porch, deck or balcony

on public property

Depth of alcove (maximum)

Width of alcove (minimum)

Clearance to termination (alcove)

Clearance to combustible above (alcove)

the combustion air inlet to any other fireplace

Clearance to nonmechanical air supply inlet to building or

Clearance above paved sidewalk or paved driveway located

36" (910 mm) **

for fireplaces < 10,000 Btu/h (3 kW),

for fireplaces > 50,000 Btu/h (15 kW)**

for fireplaces > 10,000 Btu/h (3 kW) and < 50,000 Btu/h

36" (910 mm) above if within 10 ft (3 m) horizontally **

6" (150 mm)

9" (230 mm)

84" (2130 mm) ‡

12" (300 mm) *#

72" (1830 mm) **

6" (15.2 mm) **

36" (910 mm) **

18" (457 mm) **

(15 kW), 12" (300 mm)

M

N

0

Р

Q

In accordance with the current CAN/CGA-B149.1 National Gas And Propane Installation Code

In accordance with the current ANSI Z223.1/NFPA 54 National Fuel Gas Codes

A vent shall not terminate directly above a sidewalk or paved driveway which is located between two single family dwellings and serves both dwellings

Only permitted if veranda, porch, deck, or balcony is fully-open on a minimum two sides beneath the floor

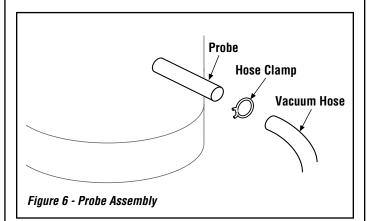
NOTE: Typical fireplace shown in illustrations. Location of components on actual fireplace may vary. Numbers in brackets correspond to items in **Table 1** (**Page 2**).

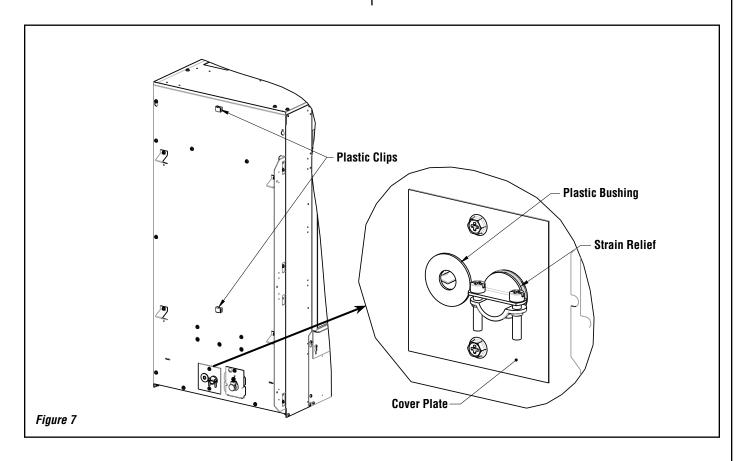
5. Install cover wire plate and vacuum hose.

- 5.1. Remove square **cover plate** on left side of fireplace (*Figure 7*).
- 5.2. Push the **plastic bushing** [#11] into the left hole on the **cover plate**, it will snap in place. This will be for the vacuum hose.
- 5.3. Install the **strain relief** [#6] into the right hole on the **cover plate**. This will be for the Romex cable.
- 5.4. Push the two **plastic clips** [#14] in to the two holes on the left side of the fireplace, they will snap in place (*Figure 7*). These will be used for holding the vacuum hose in place.
- 5.5. Secure the **vacuum hose** [#2] to the probe on the **probe assembly** with one of the provided **hose clamps** [#10] (*Figure 6*).
- 5.6. Route the **vacuum hose** [#2] from the location of the probe assembly on the fireplace to the left, down the left side through the **plastic clips** [#14] and through the **plastic bushing** [#11] into the fireplace control compartment and toward the center of the fireplace.

NOTE:

- Take care not to kink or damage the hose.
- Allow enough hose at both ends for hookup (Cut off excess hose, if needed).
- The entire run of vacuum hose must be safety plated, to prevent damage from framing nails and finish screws.

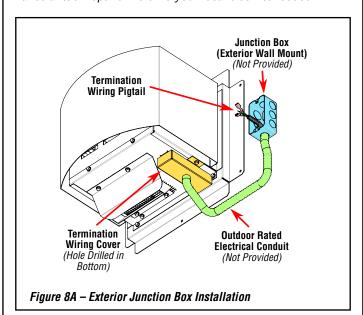




6. Route Romex wiring and connect to termination.

NOTE: Electrical wiring must be performed by a qualified electrician.

NOTE: Electrical junction boxes must be accessible for maintenance and/or repairs. Refer to your local electrical codes.



6A. Exterior Junction Box Wiring Instructions (Figure 8A)

Use this method when wires from the termination must be routed on the exterior wall near the termination.

ADDITIONAL REQUIRED PARTS (not provided)

- Outdoor Rated Electrical Junction Box & Cover Plate
- Outdoor Rated Electrical Conduit & Connectors
- 14-gauge AWG Grounded Romex Cable
- Silicone Adhesive or Waterproof 7/8" Hole Plug
- Wire Nut or (2) Ring Terminals¹
- ¹ Ring terminals may be used when connecting ground wires to electrical junction box.
- 6A.1. Remove the **termination wiring cover** (see **Figure 8B**) by removing the screw on the right side of the cover. The cover needs to be tilted down to allow it to slide out of the capture slot on the termination.

6A.2. Pull **termination wiring pigtail** out of rear hole, then install **termination** to exterior wall (see **Step 8**, "**Install the power vent termination**").

Cover up the hole with silicone. A waterproof 7/8" hole plug may be installed instead.

- 6A.3. Drill a hole in the bottom of the **termination wiring cover** with a size appropriate for a conduit connector. Attach conduit connector to **termination wiring cover**.
- 6A.4. Install an outdoor rated electrical junction box (not provided) within reach of the **termination wiring pigtail** on the exterior wall.

Install conduit from **termination wiring cover** to the electrical junction box.

NOTE: The junction box may be installed and the wire routed anywhere near the termination, except directly below the exhaust on the bottom of the termination.

6A.5. Route the **termination wiring pigtail** through the conduit and into the electrical junction box. Reinstall the **termination wiring cover**.

Route one end of a 14-gauge AWG grounded Romex cable (not provided) into the new junction box.

Route the other end of the Romex cable into the fireplace control compartment (through the strain relief installed in **Step 5**). Cut to length before installing the terminals.

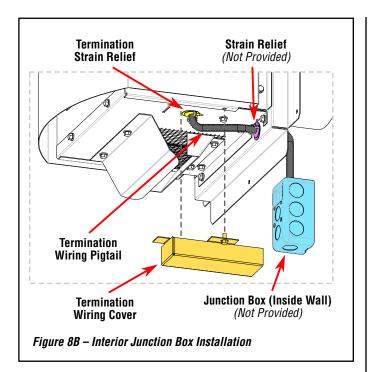
NOTE: The wiring must be safety plated, to prevent damage from framing nails and finish screws.

6A.6. See *Figure 9*. Install **ring terminal** [#7] on the fireplace side of the Romex GROUND wire.

Install **insulated male terminals** [#8] on both ends of the black and white wires of the Romex cable.

Using standard electrical practices, connect the three wires of the Romex cable to the **termination wiring pigtail**. The ground wires may either be screwed to the junction box using ring terminals (if a ground screw can be installed to the electrical junction box) or connected with a wire nut.

Install cover plate over electrical junction box.



6B. Interior Junction Box Wiring Instructions (Figure 8B)

Use this method when wires from the termination can be routed inside the exterior wall.

ADDITIONAL PARTS REQUIRED (not provided)

- Electrical Junction Box
- 14-gauge AWG Grounded Romex Cable
- Silicone Adhesive
- (2) Cable Connector/Strain Relief
- (Optional) Electrical Conduit & Connectors
- Wire Nut or (2) Ring Terminals¹
- ¹ Ring terminals may be used when connecting ground wires to electrical junction box.
- 6B.1. Install an electrical junction box (not provided) within reach of the **termination wiring pigtail** (see **Figure 8B**). The box may be installed inside the wall or on the interior wall.
- 6B.2. Drill a hole through the **firestop** [#9] and install a cable strain relief or rubber grommet in the hole so that the **termination wiring pigtail** can route directly into the wall.

NOTE: The drilled hole and wiring must be located at least 2" from the flue pipe.

NOTE: Conduit may optionally be used between the drilled hole in the firestop and the installed junction box.

6B.3. Remove the **termination wiring cover** (see **Figure 8B**) by removing the screw on the right side of the cover. The cover needs to be tilted down to allow it to slide out of the capture slot on the termination.

Install an outdoor rated cable strain relief into the hole in the rear of the **termination** and route the **termination wiring pigtail** through that strain relief. Use silicone adhesive around the wire and strain relief to provide additional weather protection.

Reinstall the termination wiring cover.

- 6B.4. As the **termination** is being installed, route the **termination wiring pigtail** into the new junction box.
- 6B.5. Route one end of a 14-gauge AWG grounded Romex cable (not provided) into the new junction box.

Route the other end of the Romex cable into the fireplace control compartment (through the strain relief installed in **Step 5**). Cut to length before installing the terminals.

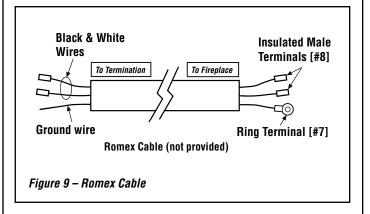
NOTE: The wiring must be safety plated, to prevent damage from framing nails and finish screws.

6A.6. See *Figure 9*. Install **ring terminal** [#7] on the fireplace side of the Romex GROUND wire.

Install **insulated male terminals** [#8] on both ends of the black and white wires of the Romex cable.

Using standard electrical practices, connect the three wires of the Romex cable to the **termination wiring pigtail**. The ground wires may either be screwed to the junction box using ring terminals (if a ground screw can be installed to the electrical junction box) or connected with a wire nut.

Install cover plate over electrical junction box.



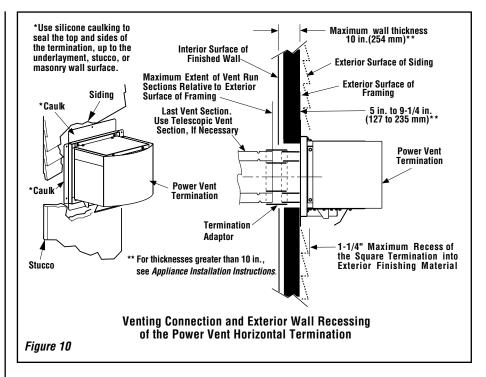
7. Install the power vent termination.

- 7.1. Assemble the vent run to the exterior wall:
 - a) If not previously measured, locate the center of the vent at the exterior wall, and prepare an opening as described in *Figures 10 and 11*.
 - b) Assemble the vent system to the point where the end of the last section is within 8 inches of the outside wall surface where the power vent termination [#1] is to be mounted (Figure 10).
 - c) If the end of the last section is not within this distance, use the **Tele-scopic Vent Section** (SV4.5LA) as the last vent section.

NOTE: For wall thicknesses greater than shown in *Figure 10*, refer to *Page 18* for other venting components that may be required.

- 7.2. See Figure 11. Attach the termination adaptor [#5] to the last vent section and secure with sheet metal screws. Attach the termination adaptor in the manner shown in Figure 4, "Connecting Adaptor, Probe, and Vent Components" (Page 4).
- 7.3. See Figure 11. Install the firestop assembly [#9]:
 - a) Install the firestop assembly over the opening on the exterior side of the framing, long side up, with 3-inch spacer clearance at the top.
 - b) Nail into place.
- 7.4. Install the **power vent termination** [#1]:
 - a) From outside the exterior wall, slide the collars of the termination [#1] through the firestop assembly [#9] and into the termination adaptor [#5] until the termination seats against the exterior wall surface to which it will be attached.
 - b) Orient the **termination** housing with the arrow pointing UP.
 - c) Secure the **termination** to the exterior wall.

NOTE: Do not recess the termination into the exterior wall or siding by more than 1-1/4" (32 mm), as shown in *Figure 10*.



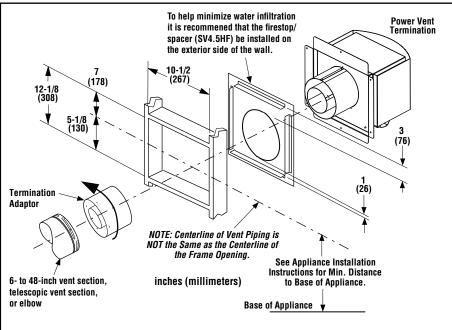


Figure 11 - Installing Power Vent Horizontal Termination

NOTICE

Our horizontal terminations are designed to perform in a wide range of weather conditions and meet or exceed industry standards.

NEVER place a horizontal termination where water from eaves or rooflines may create a heavy flow of cascading water onto the termination cap. If the cap must be placed where the possibility of cascading water exists, it is the responsibility of the builder to direct the water away from the termination cap using gutters or other means.

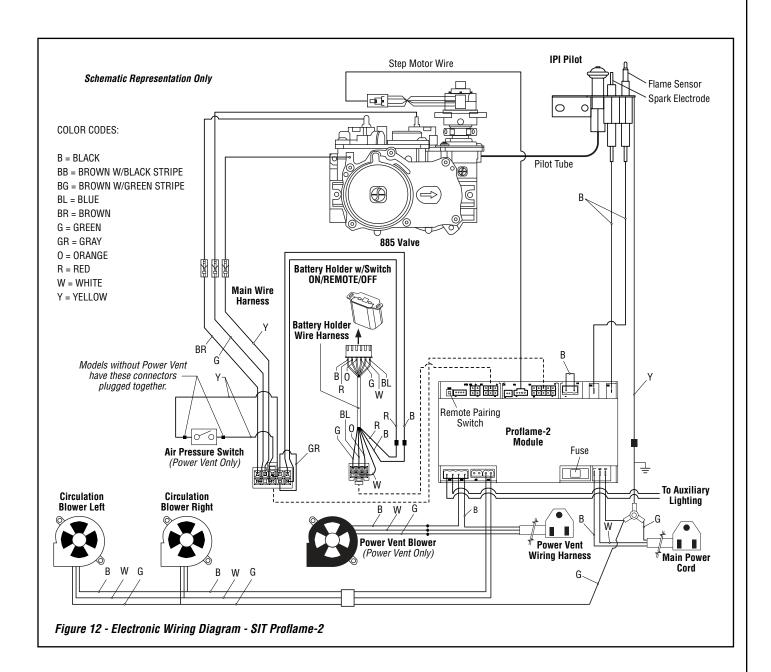
Carefully follow the installation instructions for the termination, including the use of silicone caulking where required.

CAUTION: Label all wires prior to disconnection when servicing controls. Wiring errors can cause improper and dangerous operation.

ATTENTION : Au moment de l'entretien des commandes, étiquetez tous les fils avant de les débrancher. Des erreurs de cáblage peu-vent entraîner un fonctionnement inadéquat et dangereux.

Verify proper operation after servicing.

S'assurer que l'appareil fonctionne adé-quatement une fois l'entretien terminé. CAUTION: Ground supply lead must be connected to the wire attached to the green ground screw located on the module mounting bracket. Failure to do so will result in a potential safety hazard. The appliance must be electrically grounded in accordance with local codes or, in the absence of local codes, the National Electrical Code, ANSI/NFPA 70-latest edition (In Canada, the current CSA C22-1 Canadian Electrical Code).



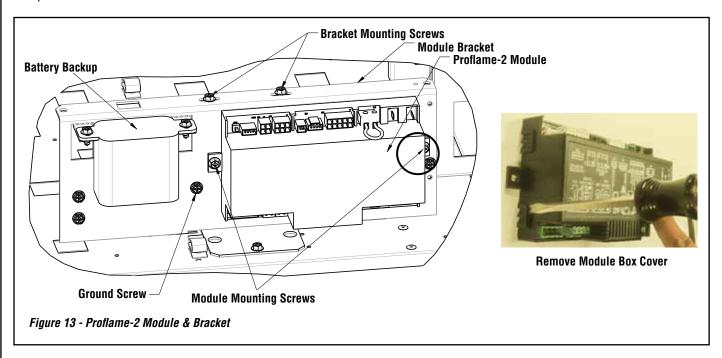
A CAUTION

Electronics inside the Proflame-2 module contain ESD (electrostatic discharge) sensitive and other hazardous components. Installer MUST wear a properly grounded anti-static wrist strap and care must be taken to avoid touching any other components on the board inside while performing these steps.

8. Converting Control from Natural Draft to Power Vent.

8.1 Disconnect POWER from the Proflame-2 module and all other wiring. Remove the two mounting screws on the top of the **Module Bracket** (*Figure 13*) and lift assembly from fireplace. Unscrew Proflame-2 **module** from bracket. Use a flat head screwdriver to unsnap and remove Proflame-2 module box cover (*Figure 13*). Remove Jumper from "JP1" location (*Figure 14*). Reinstall Proflame-2 module box cover and reinstall the Proflame-2 **module** to the bracket (*Figure 13*).

NOTE: If JP1 is not removed the Proflame-2 **module** will remain in natural draft mode and the appliance will not operate. Power vent termination is controlled by contacts between the two (2) terminals in X-12 plug. This contact will remain open at all times unless control is in power vent mode.



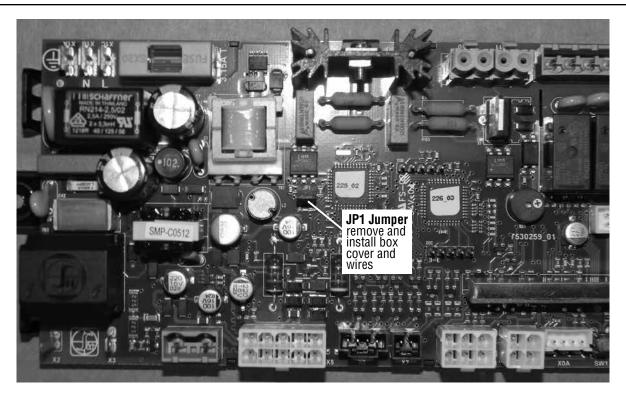
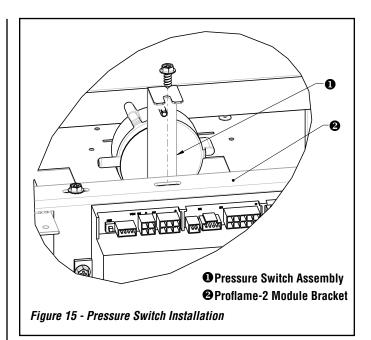


Figure 14 - Removing JP1 Jumper to Enable Power Vent

- 8.2 Cut CPI/IPI jumper wire and isolate to prevent shorting.
- 8.3 Install ground from wiring harness [#3] and ground from Romex cable (routed in **Step 6**) to ground screw installed on **Proflame-2 bracket** (Figure 13).

NOTE: Perform the steps indicated in **Step 9**, "wiring SIT Proflame-2 electronic control system" (**Page 14**), before reinstalling the **module bracket** in the fireplace.

- 8.4 Reinstall **Proflame-2 module bracket** into fireplace *(Figure 13)* using only the mounting screw on the left.
- 8.5 Install **pressure switch assembly** [#4] to bracket using the bracket mounting screw on the right (*Figure 15*).



9. Wiring SIT Proflame-2 electronic control system

NOTE: These electronic appliances must be connected to the main power supply. The gas valve is installed and pre-wired at the factory.

- 9.1 At the Proflame-2 Control Module, disconnect the two (2) joined yellow harness wires (male and female connector normally connected together on the wire harness attached to the X5 connector of the Proflame-2 control module). Connect the two (2) white adaptor wires [#12] and [#13] with the 90° female connector ends to the provided pressure switch assembly [#4] (Figure 18). Join the yellow wires to the opposite end of the white wires.
- 9.2 Connect the Green two (2) pin connector from the wiring harness [#3] to the X12 receptacle on the Proflame-2 Control Module.
- 9.3 Connect the black wire from the wiring harness [#3] to the black wire on the Romex cable coming from the power vent termination [#1].
- 9.4 Connect the white wire from the wiring harness [#3] to the white wire on the Romex cable coming from the power vent termination [#1].
- 9.5 Connect the ground wires from both the **wiring harness** [#3] and the Romex cable to any ground screw on the fireplace.
- 9.6 Secure the **vacuum hose** [#2] to the inlet port on the **pressure switch** [#4] with one of the provided **hose clamps** [#10] (*Figure 18*).
- 9.7 Plug the end of the **wiring harness** [#3] to the spare outlet on the receptacle on the inside of the left side of the fireplace.

Programming Remote Control to Proflame-2

Initializing the Remote Control System

After completing power vent installation, initialize the remote control system before operating the fireplace.

- 1. Insert the three (3) provided AAA batteries into the battery bay in the transmitter, taking care to correctly align polarity (+/-).
- 2. Locate the red (SW1) button on Proflame-2 module.
- 3. Press and release the red (SW1) button (*Figure 17*). *NOTE:* The receiver will "beep" three times to indicate it is ready to synchronize with the transmitter.
- 4. On the transmitter (*Figure 16B*), press the ON button. The receiver will "beep" three times to indicate acceptance of the transmitter's command (and set the receiver to the transmitter's specific code). The system is now initialized.

Converting Control from Natural Draft to Power Vent

 With power connected to the fireplace and remote indicating OFF, (A) press "0" on the remote handheld. "IPI" will be on the remote screen. (B) Press UP arrow to move "IPI" to "CPI" and (C) Press DOWN to move "CPI" back to "IPI" (must be completed within 10 seconds). See Figures 16A and 16B.







Figure 16A - Remote Control Operation from CPI to IPI Modes



Figure 16B - Transmitter (Remote Control)

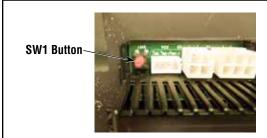


Figure 17 - Locating SW1 Button

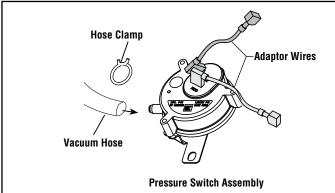


Figure 18 - Connecting Vacuum Hose to Pressure Switch

DRL6000 Series Fireplaces - Configure fireplace for Power Vent Operation

10. Set restrictor plates.

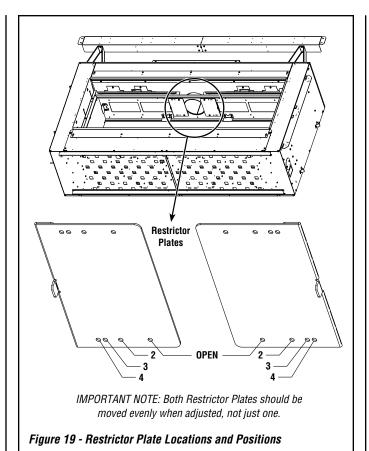
NOTICE

The Power Vent Kit requires that the restrictor plates on the fireplace are set to a certain position for the fireplace to operate correctly. This setting supersedes the settings specified in the *Appliance Installation Instructions*.

- 10.1 Remove the front glass door. Locate the spring-loaded door latches on top of the door, then pull and lift the latches to release the door from the fireplace. Carefully lift door out of channel on the bottom and set aside.
- 10.2 Specific fireplace models have a **flue baffle** (*Figure 20*) located directly below the restrictor plates and flue pipe exhaust inside the top of the firebox. If installed, temporarily remove the baffle to access the restrictor plates.

NOTE: If present on fireplace model, this baffle is REQUIRED for safe and proper operation of the fireplace and MUST be reinstalled after adjusting the restrictor plates.

- 10.3 Remove four (4) screws holding the two (2) restrictor plates to the top of the firebox (hold on to plates while removing screws as the plates will fall out when removed). Mount the restrictor plates back to the firebox using hole position #4 (closed position). See Figure 19 for plate hole locations and restriction settings.
- 10.4 Reinstall flue baffle if removed in Step 10.2. Insert baffle into top of firebox with the back side angled up. It should fit into a channel at the top rear of the firebox. Pivot the baffle up, align small hole with screw hole in the center of the firebox, and reinstall screw.
- 10.5 Reinstall the **front glass door** by performing the same steps to remove it except in reverse order.



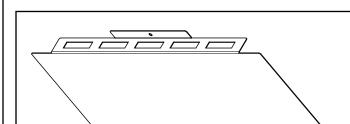


Figure 20 - Flue Baffle (Specific Fireplace Models)

Sequence of Operation

After the fireplace is turned on by the remote or wall switch the control will automatically:

- 1. Check to see if the pressure switch is open (no vacuum).
- 2. Close contact at X-12 and turn on the Power Vent (there may be up to 5 sec. delay for this step).
- 3. Wait for the power vent to get up to speed and create enough vacuum to close the pressure switch contacts.
- 4. Complete the 15 second pre-purge to clear the firebox of any residual gas or combustion products.
- 5. Start the pilot and Main Ignition sequence.

POWER VENT OPERATING INSTRUCTIONS

Appliance Operation

Familiarize yourself with the gas control valve that your appliance uses. Refer to your fireplace *Installation Instructions* for the location of the gas control valve on your specific fireplace.

To light the appliance, refer to the detailed lighting instructions in the fireplace *Care and Operation Instructions* or on the pull-out lighting instruction labels attached to the gas control valve.

Purge Cycle

The Power Vent Termination has an exhaust blower that expels the exhaust gases from the venting system. Read "NOTICE REGARD-ING PURGE CYCLE," **below**.

NOTICE REGARDING PURGE CYCLE

This is a power-vented fireplace that requires household electrical power to operate. When the fireplace is turned OFF, the exhaust blower will continue to operate for up to two minutes, to purge exhaust gases from the venting system. This system will NOT operate during a power outage.

If pressure switch is shorted or jumped the control will not turn on the power vent terminal until the pressure switch circuit is opened. After the power vent termination is powered the control must see the pressure switch close before starting ignition sequence.

Post Purge

When the fireplace is turned off using the Remote Control or Wall Switch, the control system will automatically:

- 1. Turn off the gas to the Main burner and Pilot Burner.
- Complete a 2 minute post purge cycle to clear the firebox of residual combustion products (Power vent will stay running during this time).
- 3. Turn off the Power Vent.

Power Vent Control Sequences

Turn ON

- 1. Turn ON the Thermostat or ON/OFF Switch.
- The power vent should start immediately and run for about 15 seconds before ignition.
- The ignitor will start sparking, and the pilot will light.
- 4. The burner should light after a few seconds.
- 5. The fireplace and the power vent should run continuously until the Thermostat or ON/OFF Switch is turned OFF.

Turn OFF

- 1. Turn OFF the Thermostat or ON/OFF Switch.
- 2. The burner and pilot light should be off immediately.
- 3. The power vent will continue to run for about 120 seconds, and then the blower will stop.

For additional operating instructions, please refer to the manuals provided with your fireplace.



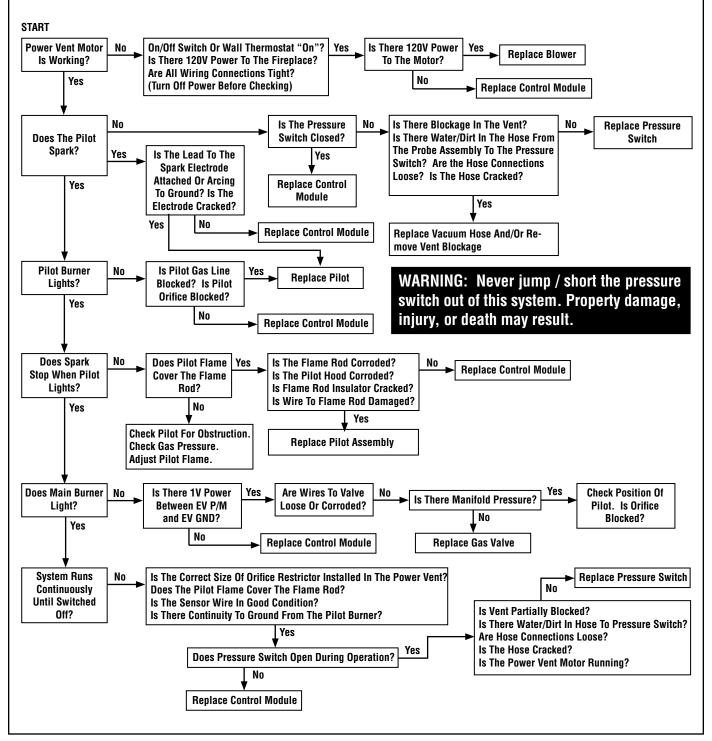
Product manuals are available for download at IHP.us.com or SuperiorFireplaces.us.com (Technical Support tab)

TROUBLESHOOTING THE POWER VENT SYSTEM

IMPORTANT: Service must be performed by a qualified installer, service agency or your gas supplier.

BEFORE COMMENCING TO TROUBLESHOOT THE UNIT:

- 1. Check if there is power to the unit (fireplace).
- 2. Check if there is gas to the unit (fireplace).
- 3. The igniter module in the fireplace is equipped with a lockout device, which will put the unit into a lockout condition. Follow the steps in the chart below to reset the control: Turn the On/Off switch to the Off position, or turn the thermostat to the Off position.
- 4. If this is the first time that the unit has been fired, check the wiring of the unit against the wiring diagram before commencing troubleshooting.



INSTALLATION ACCESSORIES

IMPORTANT NOTE: The installation accessories shown in this section are part of the safety agency listing for the product models represented in this manual.

Table 3A - Listed Secure Vent® Components

Cat. No. Model Description The following flashing comes packaged with a storm collar 77L78 SV4.5F Flat Roof Flashing 77L79 SV4.5FA 1/12 to 7/12 Adjustable Flashing 7/12 to 12/12 Adjustable 77L80 SV4.5FB 77L81 SV4.5SC6 Storm Collar (6 pack) H6183 SV4.5HF5 Firestop Spacer, 5", rigid SF4.5HF5 H6184 Firestop Spacer, 5", flex Firestop/Spacer-Horizontal, rigid H2246 SV4.5HF-10 (3-1-1 spacing), 10 Pack Firestop/Spacer-Vertical, rigid H2247 SV4.5VF-10 (1-1-1 spacing), 10 Pack Firestop/Spacer-Vertical, rigid (1-1-1 spacing), Each SV4.5VFS F2567 96K92 SV4.5SP Support Plate Secure Flex Adaptor Kit Includes rigid to flex adaptor and F3191 SV4.5AdaptorKit flex to rigid adaptor (flex not included) Vent Sections (Rigid) 77L70 SV4.5L6 6" (152 mm) 77L71 SV4.5L12 12" (305 mm) 77L72 SV4.5L24 24" (610 mm) 77L73 SV4.5L36 36" (914 mm) 77L74 SV4.5L48 48" (1219 mm) Telescopic Length Slip Section **1** (2" to 7-1/2" rigid) 77L75 SV4.5LA 77L76 SV4.5E45 45° Elbow, Corrugated 77L77 SV4.5E90 90° Elbow, Corrugated Through Wall Shield Kit (to H5816 SV4.5shield direct-vent pipe from 750,247M TWSK10 blown insulation)(see 750247M)

Table 3B - Listed Secure Flex® Components

	Cat. No.		Model		Description	
These termination kits include firestop/spacer, gear clamps, and flex adaptor.						
	60L10		SF-18		18 ft (5.49 m)* compressed flex (see 750053M)	
	98K03		SF-12		12 ft (3.66 m)*compressed flex (see 750052M)	
2577	H2248	SF4.5HF-10		Firestop/Spacer, Horizontal, flex (3-1-1 spacing), 10 Pack		
	H2249	5	SF4.5VF-10		Firestop/Spacer, Vertical, flex (1-1-1 spacing),10 Pack	
	91L66		SFGC4-6	Gea	ar Clamp 4.5" (114 mm) for flex (6-pack)	
	91L67		SFGC7-6		Gear Clamp 7.5" (190.5 mm) for flex (6 pack)	
	96K93 SV4.5SU		J	Support Strap		
	H3907		SV4.5AR	SA	Attic Insulation Shield with adjustable height, 12–22"	
	10K81	10K81 SFMP		Mill-Pac, Black, High- Temperature Sealant		
	89L40	89L40		2	Mill-Pac, Black, High- Temperature Sealant (bulk 12-pack)	
	H7748				36" Flex Connector Kit. 36" of flex with two adaptors for mating two rigid sections of vent together.	

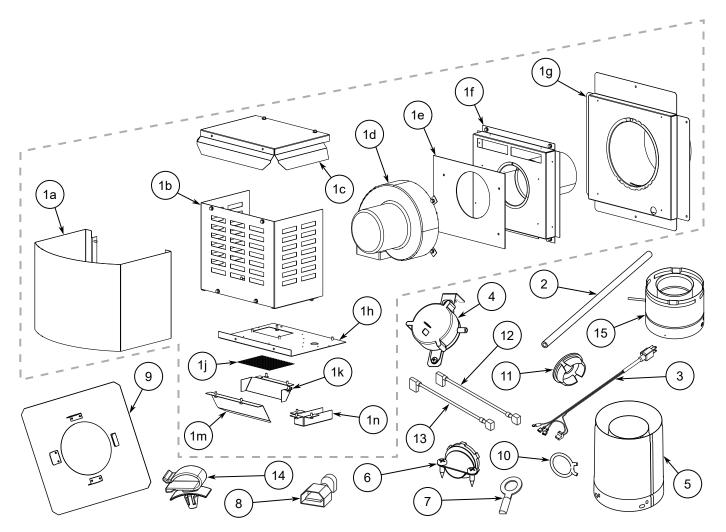
^{*}All compressed flex vents can be expanded up to two times.

The 20" slip section can be field cut to desired size (new length must allow a minimum of 1-3/4" overlap within pipe). Deburr cut edges as necessary.

POWER VENT REPLACEMENT PARTS

Item	Cat./Part No.	Description	Qty.
1	H7372	Termination Power Vent	1
1a		Wrapper Cover	1
1b		Wrapper	1
1c		Wrapper Top	1
1d		Blower Assembly	1
1e		Blower Gasket	1
1f		Kicker Assembly	1
1g		Base Assembly Power Vent	1
1h		Wrapper Bottom	1
1j		Wire Mesh	1
1k		Diverter Back	1
1m		Diverter Front	1
1n		Wiring Cover	1
2		Vacuum Hose (13 ft.)	1

Item	Cat./Part No.	Description	Qty.
3		Wiring Harness	1
4	H8329	Pressure Switch Assembly	1
5		Termination Adaptor	1
6		Strain Relief	1
7		Ring Terminal - #10	1
8		Insulated 1/4" Male Terminal	5
9		Firestop Assembly (Horizontal)	1
10		11/32" Hose Clamp	2
11		Plastic Bushing	1
12		Wire Adaptor, Female/Male	1
13		Wire Adaptor, Female/Female	1
14		Plastic Clip	2
15	J7996	Probe Assembly	1



Innovative Hearth Products (IHP) reserves the right to make changes at any time, without notice, in design, materials, specifications, prices and also to discontinue colors, styles and products. Consult your local distributor for fireplace code information.

